

S64WP v1.0

S64WP 6-port PoE switch for 4 IP cameras without power supply









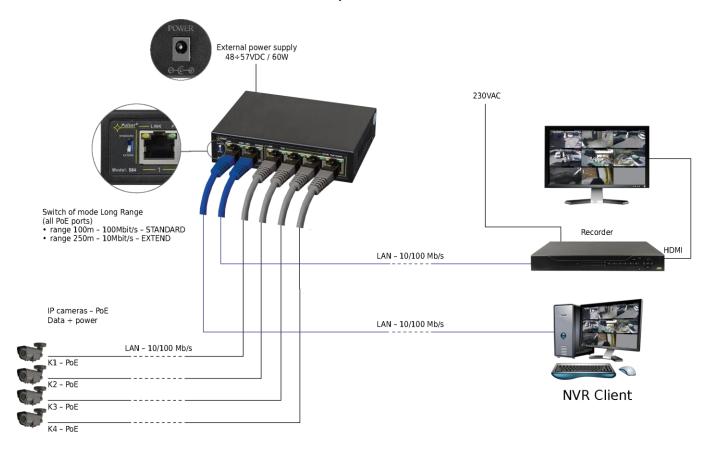
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EN

Features:

- Switch 6 ports
 - 4 PoE ports 10/100 Mb/s (data transfer and power supply)
 - 2 ports 10/100 Mb/s (UP LINK)
- Long Range mode (up to 250m)
- 30 W for each PoE port, supports devices complaint with the IEEE 802.3af/at (PoE+) standard
- Supports auto-learning and auto-aging of MAC addresses (1K size)
- · Additional assembly elements
- LED indication
- warranty 2 years from production date

Example of use.



1. Technical description

1.1. General description.

S64 is a 6-ports PoE switch designed to supply IP cameras operating in IEEE 802.3af/at standard.

Automatic detection of any devices powered in the PoE/PoE+ standard is enabled at the 1 – 4 ports of the switch. The UP LINK ports is used for connection of another network device via RJ45 connector. The LEDs at the front panel indicate the operation status (description in the table below).

The PoE technology ensures a network connection and reduces installation costs by eliminating the need to supply a separate power cable for each device. This method allows supplying other network devices, such as IP phone, wireless access point or router.

1.2 Block diagram.

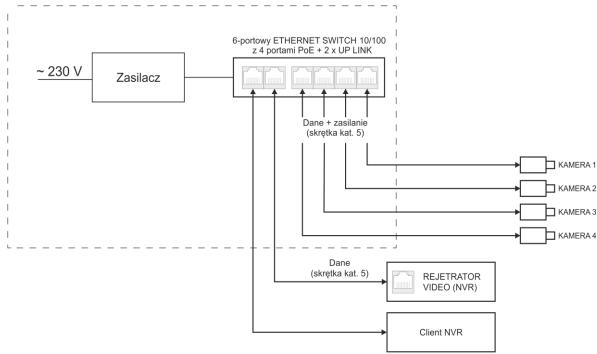


Fig. 1. Block diagram.

1.3 Description of components and connectors.

Table 1. (see Fig.2)

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Element no. (Fig. 2)	Description	
[1]	2 x UP LINK port	
[2]	4 x PoE port (1÷4)	
[3]	Power Socket of the DC	
[4]	Additional mounting elements	
[5]	Switch of mode Long Range	

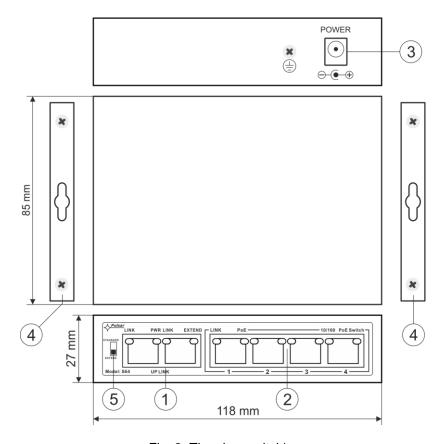


Fig. 2. The view switch'a.

1.4. Technical parameters.

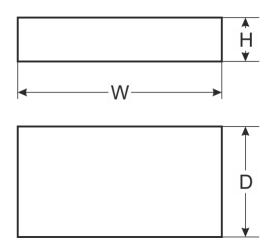


Table 2

i abie Z.			
Ports	6 ports 10/100 Mb/s (4 x PoE + 2 x UP LINK) with connection speed auto-negotiation and MDI/MDIX Auto Cross		
PoE power supply	IEEE 802.3af/at (1÷4 ports), 52 V DC / 30 W at each port *		
Long Range mode	Long Range, VLAN		
Protocols, Standards	IEEE 802.3, 802.3u, 802.3x CSMA/CD, TCP/IP		
Bandwidth	1,6 Gb/s		
Transmission method	Store-and-Forward		
Optical indication of operation	Switch power supply; Link/Act; PoE Status		
Power supply	48-57 V DC; 1,25 A max.		
Self-power consumption	5 W max.		
Operating conditions	Temperature -10°C ÷ 40°C, relative humidity 5% - 90%, no condensation		
Dimensions	W=118, H=28, D=85 [+/- 2mm]		
Additional equipment	plate to be fixed surface		
Net/gross weight	0.26 / 0.45 [kg]		
Protection class PN-EN 62368-1	II (second)		
Storage temperatur	-20°C ÷ 60°C		
Declarations	CE		

^{*} The given value of 30 W per port is the maximum value. The total power consumption should not exceed 60 W.

2. Installation

2.1. Requirements

The unit should be mounted in confined spaces, in accordance with the 2nd environmental class, with normal relative humidity (RH=90% maximum, without condensation) and temperature from -10°C to +40°C. Ensure the free flow of air around the unit. The PSU shall work in a vertical position that guarantees sufficient convectional air-flow through ventilating holes of the enclosure.

The load balance should be done before installation Switcha. Depending on application, appropriate power supply should be selected (recommended 52 V; 1,25 A). The given value of 30 W per port is the maximum value referring to a single output. The total power consumption should not exceed 60 W and depends on the current efficiency of the PSU, taking account of the power intake for the own needs of the device. Z. The increased demand for power is particularly evident in the case of cameras with heaters or infrared illuminators - when launching these features, the power consumption increases rapidly, which may adversely affect the operation of the switch. The device is designed for a continuous operation and is not equipped with a power-switch. Therefore, an appropriate overload protection in the power supply circuit should be provided. The electrical system shall be made in accordance with applicable standards and regulations.

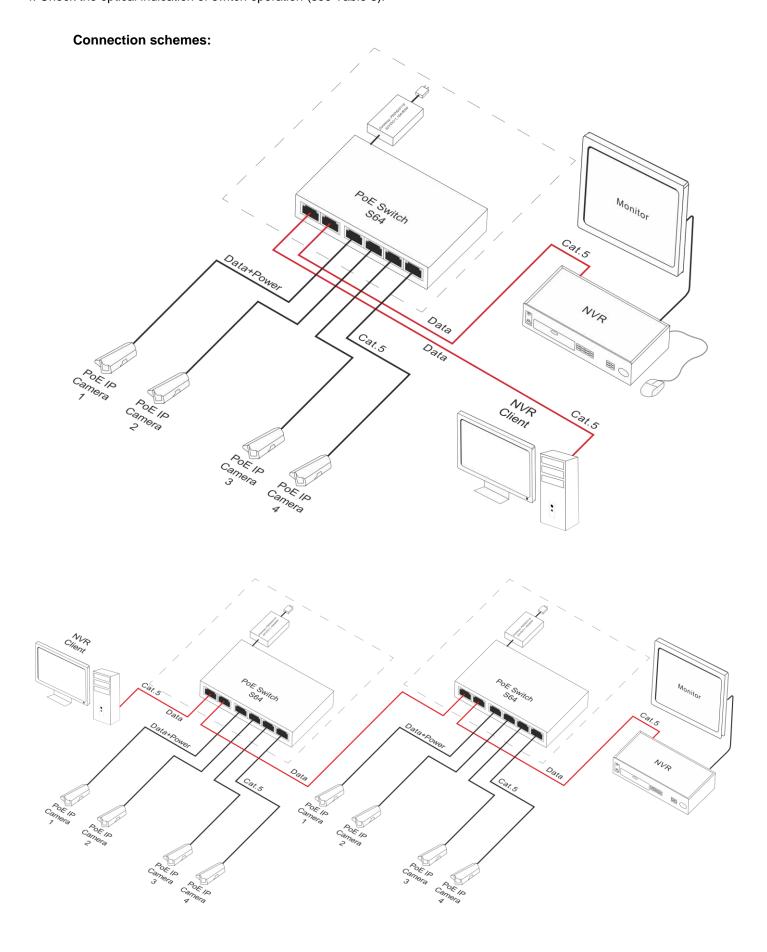
2.2. Long Range mode

Switch enables operation in two modes: standard and extended range. When the Long Range switch is in STANDARD position (see Fig. 5), PoE ports operate at 100 Mb/s up to 100 meters. After switching to EXTEND position, range is increased to 250 meters and speed is reduced to 10 Mb/s. Additionally, VLAN function, which isolates the PoE ports between each other (communication takes place between the UpLink ports and individual PoE), is activated. In both modes, the UpLink port speed is 100 Mb/s.

Note: Changing the modes requires a power restart!

2.3. Installation procedure

- Connect switch to power supply unit.
 Connect the power supply to the AC 230 V socket.
 Connect the camera wires to the RJ45 connectors (PoE connectors).
 Check the optical indication of switch operation (see Table 3).



3. Operation indication.

Table 3. Operation indication

OPTICAL INDICATION AT THE POE PORTS (1÷4)

GREEN LED LIGHT (PoE) Indication of the PoE power supply at the RJ45 ports	<u>a</u>	OFF – no power supply at the RJ45 port (the device is not connected or not compliant with the IEEE 802.3af/at standard) ON – supply at the RJ45 port Blinking – short-circuit or output overload	
YELLOW LED LIGHT (LINK) The connection status of LAN devices, 10 MB/s or 100 Mb/s and data transmission		OFF – no connection ON – the device is connected; 10 Mb/s or 100 Mb/s Blinking – data transmission	

OPTICAL INDICATION AT THE UP LINK PORTS

GREEN LED LIGHT	Port on the left side: No lit – no voltage Lit – switch operates properly	Port on the right side: No lit – switch operates in normal mode Lit– Long Range mode active
YELLOW LED LIGHT (LINK) The connection status of LAN devices, 10 MB/s or 100 Mb/s and data transmission	OFF – no data transmission ON – the device is connected; 10 Mb/s or 100 Mb/s Blinking – data transmission	



WEEE LABEL

Waste electrical and electronic equipment must not be disposed of with normal household waste.

According to the European Union WEEE Directive, waste electrical and electronic equipment should be disposed of separately from normal household waste.

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